

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

**ATTACHMENT 5
May 2010 - Groundwater Sample Information Sheets**

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 169-D	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	34.55 ft
Depth to product	ft
Depth to water (DTW)	19.95 ft

Sample Types (circle all applicable)

<u>Monitoring Well</u>	
<u>Grab</u> /Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	31.55 ft
Bubbles purged from flow cell?	<u>Y</u> /N
Is drawdown > 0.3 feet	<u>Y</u> /N
Was passive sampling used?	Y/ <u>N</u>
Flowrate =	7 mL/min
ID number from controller console	# 15pm

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.69	14.70	14.72				
Spec. Cond (µmhos)	+/- 3%	.906	.907	.909				
D.O. (mg/L)	+/- 10%**	.42	.39	.38				
pH	+/- 0.1	7.52	7.52	7.53				
ORP (mV)	+/- 10 mV**	24	13	12				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 10:30 (military time)

Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES (NO) explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: need new covers "new pad"

Signature: J. Julian Date: 5/19/10

1214
-827

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 169-S	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	23.21 ft
Depth to product	ft
Depth to water (DTW)	20.00 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
<input type="checkbox"/> MS/MSD	
Other _____	

Conventional sampling	⇐OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) _____ ft		Depth of pump placement (place mid-screen) _____ 20.21 ft
Conversion value (CV)* x _____		Bubbles purged from flow cell? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
1 Well volume = H x CV = _____ gal		Is drawdown > 0.3 feet <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
3 Well volumes = _____ gal		Was passive sampling used? <input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Purge method (B = bailer, P = pump) _____ B / P		Flowrate = _____ 15 gpm mL/min
		ID number from controller console # _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	15.11	14.95	14.91				
Spec. Cond (µmhos)	+/- 3%	688	690	691				
D.O. (mg/L)	+/- 10%**	4.37	4.30	4.31				
pH	+/- 0.1	7.47	7.42	7.42				
ORP (mV)	+/- 10 mV**	86	86	86				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 11:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: new pad

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 167-1	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	32.65 ft
Depth to product	ft
Depth to water (DTW)	18.48 ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: 167-01)	
MS/MSD	
Other	

Conventional sampling	⇐OR⇒	Micropurge sampling
Height of water column (H = TD - DTW) ft		Depth of pump placement (place mid-screen) 29.65 ft
Conversion value (CV)* x		Bubbles purged from flow cell? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
1 Well volume = H x CV = gal		Is drawdown > 0.3 feet <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
3 Well volumes = gal		Was passive sampling used? Y / <input checked="" type="checkbox"/> N
Purge method (B = bailer, P = pump) B / P		Flowrate = 1 gpm mL/min
		ID number from controller console #

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	15.37	15.38	15.39				
Spec. Cond (µmhos)	+/- 3%	891	893	890				
D.O. (mg/L)	+/- 10%**	.32	.29	.27				
pH	+/- 0.1	7.66	7.65	7.65				
ORP (mV)	+/- 10 mV**	125	119	114				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 11:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 167-S	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	21.85 ft
Depth to product	ft
Depth to water (DTW)	18.25 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	18.85 ft
Bubbles purged from flow cell?	Y/N
Is drawdown >0.3 feet	Y/N
Was passive sampling used?	Y/N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.40	14.42	14.45				
Spec. Cond (µmhos)	+/- 3%	1.168	1.165	1.170				
D.O. (mg/L)	+/- 10%**	.74	.59	.58				
pH	+/- 0.1	7.42	7.40	7.38				
ORP (mV)	+/- 10 mV**	51	79	78				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 12:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 165-S	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.60 ft
Depth to product	ft
Depth to water (DTW)	13.95 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.60 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	9.89	9.97	10.01				
Spec. Cond (µmhos)	+/- 3%	747	747 743	743				
D.O. (mg/L)	+/- 10%**	.64	.65	.60				
pH	+/- 0.1	7.73	7.73	7.73				
ORP (mV)	+/- 10 mV**	18	16	16				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons
 Sample Date: 5/19/10 Sample Time: 13:30 (military time)
 Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
 Color of water before filtration: N/A After filtration: N/A
 Reaction upon addition of preservatives? YES NO explain: N/A
 Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
 Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Utility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-165-D	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	46.45 ft
Depth to product	ft
Depth to water (DTW)	13.85 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	43.45 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	9.89	9.99	10.01				
Spec. Cond (µmhos)	+/- 3%	1.311	1.307	1.307				
D.O. (mg/L)	+/- 10%**	.45	.42	.41				
pH	+/- 0.1	7.88	7.87	7.87				
ORP (mV)	+/- 10 mV**	41	31	30				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 13:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 166-2	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	49.60 ft
Depth to product	ft
Depth to water (DTW)	14.60 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	46.60 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.87	14.88	14.89				
Spec. Cond (µmhos)	+/- 3%	1716	1719	1726				
D.O. (mg/L)	+/- 10%**	194	188	179				
pH	+/- 0.1	7.84	7.84	7.83				
ORP (mV)	+/- 10 mV**	56	47	46				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 14:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 166-S	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.00 ft
Depth to product	ft
Depth to water (DTW)	14.83 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.00 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.47	14.48	14.49				
Spec. Cond (µmhos)	+/- 3%	789	805	809				
D.O. (mg/L)	+/- 10%**	.67	.63	.64				
pH	+/- 0.1	7.66	7.65	7.63				
ORP (mV)	+/- 10 mV**	92	92	92				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 14:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>147-4R</u>	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>28.60</u> ft
Depth to product	ft
Depth to water (DTW)	<u>11.26</u> ft

Sample Types (circle all applicable)

Monitoring Well

Grab/Composite

Split Sample

Duplicate (Duplicate ID: _____)

MS/MSD

Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	ft
Bubbles purged from flow cell?	<u>Y</u> /N
Is drawdown >0.3 feet	<u>Y</u> /N
Was passive sampling used?	Y <u>N</u>
Flowrate =	<u>1gpm</u> mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>14.13</u>	<u>14.16</u>	<u>14.17</u>	_____	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	<u>1.337</u>	<u>1.334</u>	<u>1.335</u>	_____	_____	_____	_____
D.O. (mg/L)	+/- 10%**	<u>.35</u>	<u>.33</u>	<u>.31</u>	_____	_____	_____	_____
pH	+/- 0.1	<u>7.52</u>	<u>7.52</u>	<u>7.52</u>	_____	_____	_____	_____
ORP (mV)	+/- 10 mV**	<u>-19</u>	<u>-24</u>	<u>-25</u>	_____	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 9:00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Utility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-132 R	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.00 ft
Depth to product	ft
Depth to water (DTW)	9.56 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.00 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.28	14.29	14.30				
Spec. Cond (µmhos)	+/- 3%	1973	1978	1980				
D.O. (mg/L)	+/- 10%**	1.52	1.42	1.30				
pH	+/- 0.1	7.69	7.68	7.68				
ORP (mV)	+/- 10 mV**	49	50	50				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons
Sample Date: 5/20/10 Sample Time: 9:30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 148 R	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	24.45 ft
Depth to product	ft
Depth to water (DTW)	11.23 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	21.45 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> N
Was passive sampling used?	Y <input checked="" type="checkbox"/>
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.25	13.22	13.20				
Spec. Cond (µmhos)	+/- 3%	1.242	1.228	1.227				
D.O. (mg/L)	+/- 10%**	1.64	1.51	1.50				
pH	+/- 0.1	7.72	7.60	7.59				
ORP (mV)	+/- 10 mV**	160	160	159				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 10:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Utility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 153	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	20.71 ft
Depth to product	ft
Depth to water (DTW)	12.52 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well	
<input type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
<input type="checkbox"/> Duplicate (Duplicate ID: _____)	
<input checked="" type="checkbox"/> MS/MSD	
<input type="checkbox"/> Other _____	

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	17.71 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> N
Is drawdown >0.3 feet	<input checked="" type="checkbox"/> N
Was passive sampling used?	Y / <input checked="" type="checkbox"/>
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	12.76	12.82	12.91				
Spec. Cond (µmhos)	+/- 3%	1.070	1.071	1.069				
D.O. (mg/L)	+/- 10%**	3.38	3.37	3.35				
pH	+/- 0.1	7.86	7.86	7.85				
ORP (mV)	+/- 10 mV**	176	176	176				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 10:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 302	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	37.75 ft
Depth to product	ft
Depth to water (DTW)	13.51 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
<input type="checkbox"/> MS/MSD	
Other _____	

Conventional sampling	⇐OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) _____ ft		Depth of pump placement (place mid-screen) 34.75 ft
Conversion value (CV)* x _____		Bubbles purged from flow cell? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
1 Well volume = H x CV = _____ gal		Is drawdown >0.3 feet <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
3 Well volumes = _____ gal		Was passive sampling used? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Purge method (B = bailer, P = pump) B / P		Flowrate = 1 gpm mL/min
		ID number from controller console # _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.53	13.54	13.54				
Spec. Cond (µmhos)	+/- 3%	1606	1607	1605				
D.O. (mg/L)	+/- 10%**	1.51	1.33	1.29				
pH	+/- 0.1	8.07	8.06	8.05				
ORP (mV)	+/- 10 mV**	180	179	179				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 11:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>133-R</u>	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>15.90</u> ft
Depth to product	ft
Depth to water (DTW)	<u>9.56</u> ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	<u>12.90</u> ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	<u>1 gpm</u> mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>12.71</u>	<u>12.71</u>	<u>12.70</u>	_____	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	<u>1.079</u>	<u>1.081</u>	<u>1.077</u>	_____	_____	_____	_____
D.O. (mg/L)	+/- 10%**	<u>2.68</u>	<u>2.63</u>	<u>2.60</u>	_____	_____	_____	_____
pH	+/- 0.1	<u>7.72</u>	<u>7.70</u>	<u>7.69</u>	_____	_____	_____	_____
ORP (mV)	+/- 10 mV**	<u>238</u>	<u>238</u>	<u>238</u>	_____	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 11:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 152	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	15.61 ft
Depth to product	ft
Depth to water (DTW)	13.78 ft

Sample Types (circle all applicable)
Monitoring Well <input checked="" type="checkbox"/>
Grab/Composite <input type="checkbox"/>
Split Sample <input type="checkbox"/>
Duplicate (Duplicate ID: _____) <input type="checkbox"/>
MS/MSD <input type="checkbox"/>
Other _____ <input type="checkbox"/>

Conventional sampling	
Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	15.61 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.85	14.85	14.87				
Spec. Cond (µmhos)	+/- 3%	549	549	551				
D.O. (mg/L)	+/- 10%**	1.49	1.30	1.30				
pH	+/- 0.1	7.81	7.80	7.79				
ORP (mV)	+/- 10 mV**	229	229	229				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 12:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Utility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-146	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	23.34 ft
Depth to product	ft
Depth to water (DTW)	9.66 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well	
<input type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
<input type="checkbox"/> MS/MSD	
Other _____	

Conventional sampling

Height of water column	ft
(H = TD – DTW)	
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method	
(B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement	20.34 ft
(place mid-screen)	
Bubbles purged from flow cell?	Y/N
Is drawdown >0.3 feet	Y/N
Was passive sampling used?	Y/N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.47	13.43	13.40				
Spec. Cond (µmhos)	+/- 3%	1672	1676	1679				
D.O. (mg/L)	+/- 10%**	1.79	1.40	1.39				
pH	+/- 0.1	7.19	7.75	7.73				
ORP (mV)	+/- 10 mV**	243	243	243				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 12:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: ok

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>10-1R</u>	Well Location:

Monitoring Well Data	
Well Material	(<u>PVC</u> /SS/Teflon)
Inside Diameter, in.	(3/4 1 <u>2</u> 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>15.65</u> ft
Depth to product	ft
Depth to water (DTW)	<u>14.68</u> ft

Sample Types (circle all applicable)
<u>Monitoring Well</u>
<u>Grab</u> /Composite
Split Sample
Duplicate (Duplicate ID: _____)
<u>MS/MSD</u>
Other _____

Conventional sampling	⇐OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) _____ ft		Depth of pump placement (place mid-screen) <u>15.65</u> ft
Conversion value (CV)* x _____		Bubbles purged from flow cell? <u>0</u> /N
1 Well volume = H x CV = _____ gal		Is drawdown >0.3 feet <u>0</u> /N
3 Well volumes = _____ gal		Was passive sampling used? Y/ <u>0</u>
Purge method (B = bailer, P = pump) B / P		Flowrate = <u>1 gpm</u> mL/min
		ID number from controller console # _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>12.10</u>	<u>12.01</u>	<u>11.99</u>				
Spec. Cond (µmhos)	+/- 3%	<u>768</u>	<u>764</u>	<u>764</u>				
D.O. (mg/L)	+/- 10%**	<u>2.16</u>	<u>2.06</u>	<u>2.00</u>				
pH	+/- 0.1	<u>7.71</u>	<u>7.69</u>	<u>7.67</u>				
ORP (mV)	+/- 10 mV**	<u>245</u>	<u>245</u>	<u>245</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons
 Sample Date: 5/20/10 Sample Time: 13:00 (military time)
 Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
 Color of water before filtration: N/A After filtration: N/A
 Reaction upon addition of preservatives? YES NO explain: N/A
 Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
 Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 150	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	18.75 ft
Depth to product	ft
Depth to water (DTW)	13.16 ft

Sample Types (circle all applicable)

Monitoring Well

Grab/Composite

Split Sample

Duplicate (Duplicate ID: _____)

MS/MSD

Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	15.75 ft
Bubbles purged from flow cell?	<u>Y</u> /N
Is drawdown >0.3 feet	<u>Y</u> /N
Was passive sampling used?	Y/ <u>N</u>
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.47	13.46	13.44	13.42			
Spec. Cond (µmhos)	+/- 3%	1798	1797	1797	1796			
D.O. (mg/L)	+/- 10%**	6.64	3.61	2.25	2.17			
pH	+/- 0.1	7.60	7.62	7.62	7.62			
ORP (mV)	+/- 10 mV**	265	265	264	263			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 13:30 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: Clear Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>IW-1 IW-2</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>14.85</u> ft
Depth to product	ft
Depth to water (DTW)	<u>13.00</u> <u>11.27</u> <u>(3)</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
<input type="checkbox"/> MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>11.85</u> ft
Bubbles purged from flow cell?	<u>(Y)</u> / N
Is drawdown > 0.3 feet	<u>(Y)</u> / N
Was passive sampling used?	Y / <u>(N)</u>
Flowrate =	<u>19</u> gpm mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>13.60</u>	<u>13.36</u>	<u>13.22</u>	<u>13.20</u>			
Spec. Cond (µmhos)	+/- 3%	<u>.690</u>	<u>.691</u>	<u>.693</u>	<u>.693</u>			
D.O. (mg/L)	+/- 10%**	<u>1.87</u>	<u>1.51</u>	<u>1.40</u>	<u>1.31</u>			
pH	+/- 0.1	<u>7.83</u>	<u>7.80</u>	<u>7.78</u>	<u>7.78</u>			
ORP (mV)	+/- 10 mV**	<u>259</u>	<u>259</u>	<u>259</u>	<u>259</u>			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 14:00 (military time)

Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES (NO) explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>TW-21</u>	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	ft
Depth to product	ft
Depth to water (DTW)	11.27 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft	
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)		B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	ft	
Bubbles purged from flow cell?		Y/N
Is drawdown > 0.3 feet		Y/N
Was passive sampling used?		Y/N
Flowrate =		/gpm mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.15	13.12	13.13				
Spec. Cond (µmhos)	+/- 3%	895	898	895				
D.O. (mg/L)	+/- 10%**	.47	.40	.38				
pH	+/- 0.1	7.39	7.38	7.38				
ORP (mV)	+/- 10 mV**	-7	-18	-20				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 15:00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 163	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.37 ft
Depth to product	ft
Depth to water (DTW)	11.00 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.37 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> N
Was passive sampling used?	Y / <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.06	14.16	14.17				
Spec. Cond (µmhos)	+/- 3%	1655	1654	1655				
D.O. (mg/L)	+/- 10%**	1.83	1.71	1.69				
pH	+/- 0.1	7.65	7.64	7.62				
ORP (mV)	+/- 10 mV**	49	47	46				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons
 Sample Date: 5/20/10 Sample Time: 15:30 (military time)
 Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____
 Color of water before filtration: N/A After filtration: N/A
 Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A
 Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
 Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 173	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	17.64 ft
Depth to product	ft
Depth to water (DTW)	13.50 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	14.67 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.24	13.24	13.23				
Spec. Cond (µmhos)	+/- 3%	1643	1644	1646				
D.O. (mg/L)	+/- 10%**	1.73	1.66	1.61				
pH	+/- 0.1	7.72	7.71	7.70				
ORP (mV)	+/- 10 mV**	136	136	135				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons
 Sample Date: 5/20/10 Sample Time: 16:00 (military time)
 Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____
 Color of water before filtration: N/A After filtration: N/A
 Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A
 Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
 Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>156</u>	Well Location:

Monitoring Well Data	
Well Material	(<u>PVC</u> /SS/Teflon)
Inside Diameter, in.	(3/4 1 <u>2</u> 4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	<u>18.44</u> ft
Depth to product	_____ ft
Depth to water (DTW)	<u>12.28</u> ft

Sample Types (circle all applicable)	
<u>Monitoring Well</u>	
<u>Grab</u> /Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD – DTW)	_____ ft
Conversion value (CV)*	x _____
1 Well volume = H x CV	= _____ gal
3 Well volumes =	= _____ gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>15.44</u> ft
Bubbles purged from flow cell?	<u>Y</u> /N
Is drawdown >0.3 feet	<u>Y</u> /N
Was passive sampling used?	Y/ <u>N</u>
Flowrate =	<u>19pm</u> mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>12.46</u>	<u>12.43</u>	<u>12.41</u>	_____	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	<u>1537</u>	<u>1547</u>	<u>1554</u>	_____	_____	_____	_____
D.O. (mg/L)	+/- 10%**	<u>2.52</u>	<u>2.35</u>	<u>2.22</u>	_____	_____	_____	_____
pH	+/- 0.1	<u>7.83</u>	<u>7.81</u>	<u>7.81</u>	_____	_____	_____	_____
ORP (mV)	+/- 10 mV**	<u>172</u>	<u>172</u>	<u>172</u>	_____	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 17:00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 151	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	18.53 ft
Depth to product	ft
Depth to water (DTW)	1405 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	15.53 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> N
Is drawdown >0.3 feet	<input checked="" type="checkbox"/> N
Was passive sampling used?	Y / <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	12.13	12.10	12.09				
Spec. Cond (µmhos)	+/- 3%	1609	1611	1614				
D.O. (mg/L)	+/- 10%**	2.30	2.14	2.09				
pH	+/- 0.1	7.75	7.73	7.71				
ORP (mV)	+/- 10 mV**	196	197	197				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons
 Sample Date: 5/21/10 Sample Time: 9:00 (military time)
 Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____
 Color of water before filtration: N/A After filtration: N/A
 Reaction upon addition of preservatives? YES ☒ NO explain: N/A
 Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
 Well condition: OK

Signature: [Signature] Date: 5/21/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 157	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	17.15 ft
Depth to product	ft
Depth to water (DTW)	12.21 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	14.15 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> N
Was passive sampling used?	Y <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	12.28	12.23	12.20				
Spec. Cond (µmhos)	+/- 3%	804	805	804				
D.O. (mg/L)	+/- 10%**	1.28	1.11	1.00				
pH	+/- 0.1	7.69	7.67	7.65				
ORP (mV)	+/- 10 mV**	213	213	212				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/21/18 Sample Time: 9:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/21/18

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 164	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	24.95 ft
Depth to product	ft
Depth to water (DTW)	19.29 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
<input type="checkbox"/> MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	21.95 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> N
Is drawdown >0.3 feet	<input checked="" type="checkbox"/> N
Was passive sampling used?	Y / <input checked="" type="checkbox"/> N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.53	14.46	14.40				
Spec. Cond (µmhos)	+/- 3%	1657	1653	1654				
D.O. (mg/L)	+/- 10%**	.65	.54	.45				
pH	+/- 0.1	7.73	7.72	7.71				
ORP (mV)	+/- 10 mV**	213	213	213				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/21/10 Sample Time: 10:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO explain: N/A

Appearance of Water: (Clear Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/21/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 160	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	13.65 ft
Depth to product	ft
Depth to water (DTW)	4.00 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	10.65 ft
Bubbles purged from flow cell?	8/N
Is drawdown > 0.3 feet	8/N
Was passive sampling used?	Y/N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.05	12.41	12.90	12.80	12.79		
Spec. Cond (µmhos)	+/- 3%	1.444	1.446	1.446	1.480	1.452		
D.O. (mg/L)	+/- 10%**	2.03	1.62	1.40	1.38	1.35		
pH	+/- 0.1	7.81	7.76	7.76	7.74	7.73		
ORP (mV)	+/- 10 mV**	128	127	128	128	124		
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/21/10 Sample Time: 10:30 (military time)

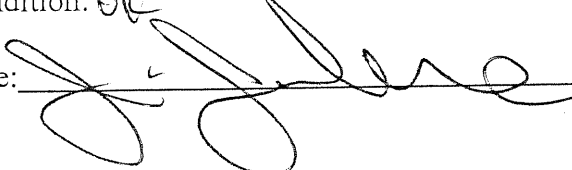
Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature:  Date: 5/21/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 161	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	14.00 ft
Depth to product	ft
Depth to water (DTW)	5.35 ft

Sample Types (circle all applicable)

<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	11.00 ft
Bubbles purged from flow cell?	8/N
Is drawdown >0.3 feet	0/N
Was passive sampling used?	Y/N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	10.60	10.59	10.53				
Spec. Cond (µmhos)	+/- 3%	557	547	551				
D.O. (mg/L)	+/- 10%**	2.80	2.77	2.78				
pH	+/- 0.1	7.41	7.39	7.39				
ORP (mV)	+/- 10 mV**	143	142	143				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/21/10 Sample Time: 11:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/21/10